

All-sides attachment

Noise dampening pads, optional
= -10dB(A)

Chip protection

NC without pretension

Lateral glide surfaces for side-mounted operation

25% faster assembly with QuickLock system

Very high capacity due to the undercut design

Notch crossbar with backside scaling

+ "Light Design", very large inner height

When to use Series 15050·15150·19850:

- If weight and price reduction as well as a compromise in strength is needed
- If an e-chain®/e-tube with an inner height of 80 mm is required
- If inner widths up to 600 mm are required
- For unsupported lengths up to 4,6 m and fill weights up to 54 kg/m
- For long travels up to 250 m
- Also suitable for side-mounted, vertical standing or hanging applications



When to use a different igus® Series

- If an extremely **low-noise** and low-vibration e-chain® is required (≤ 46 dB(A))
 - ▶ **Series E6.80, page 8.88**
- If larger unsupported lengths are required in side-mounted applications
 - ▶ **Series E4.80, page 7.96**
- If increased unsupported lengths and longer travels are required
 - ▶ **Series E4.80, page 7.96**



The new igus® E4 e-chain® opener reduces assembly time ▶ page 7.161

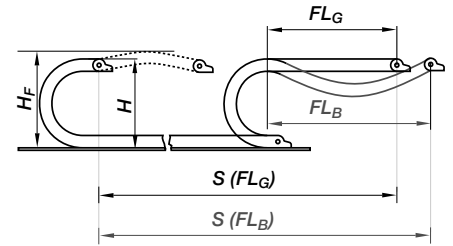
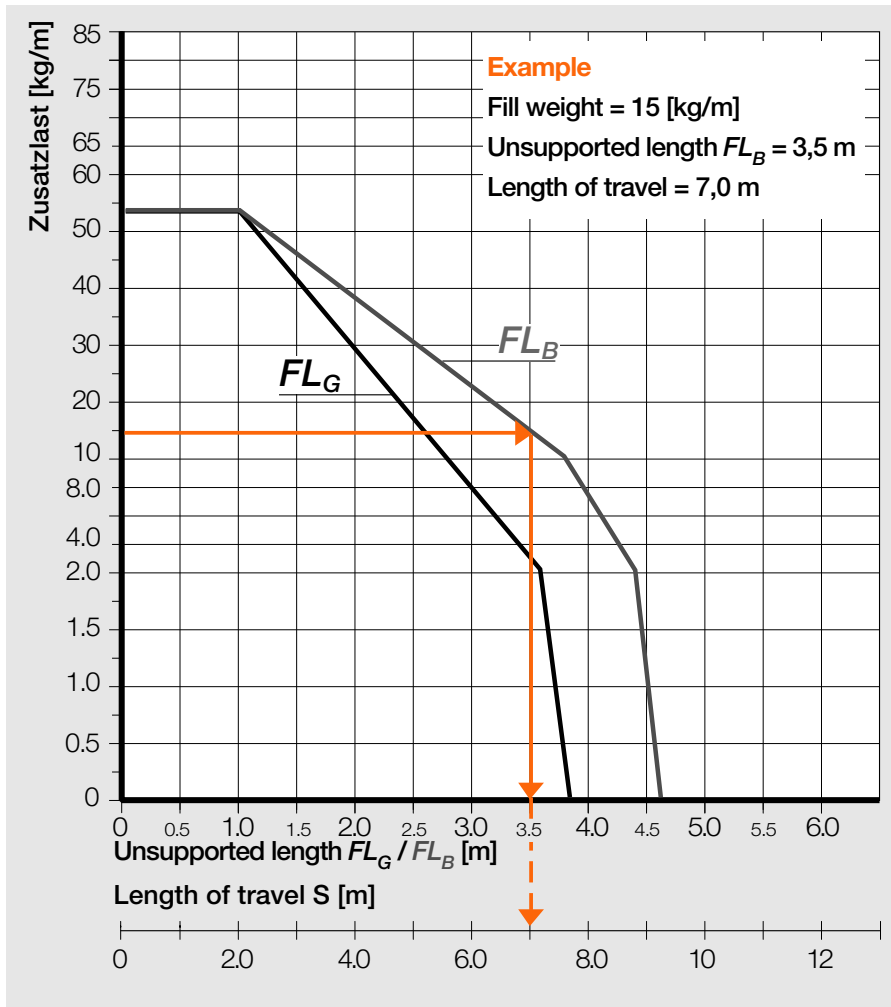


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/15050

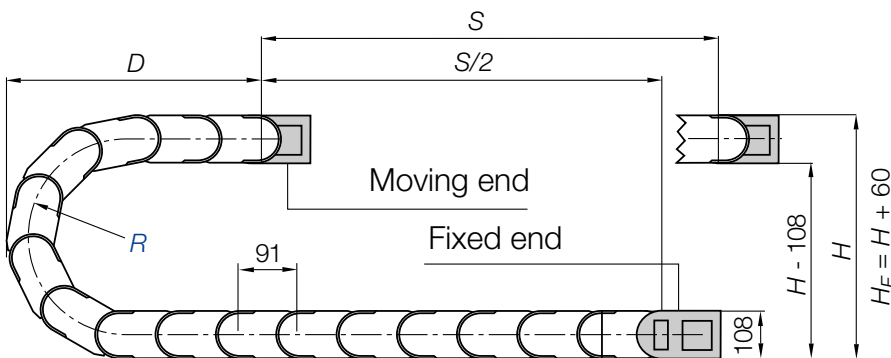


Standard **Unsupported applications**

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► **Design, page 1.8**

Gliding applications

Travels up to 250 m.
 More information ► **page 7.230**



Technical Data

Speed, material, temperature and flammability class ► **page 7.162**

- Pitch** = 91 mm/link
- Links/m** = 11 (1001 mm)
- Chain length** = $S/2 + K$

R	150	200	250	300	350	400	500	600
H_{+25}^{-0}	410	510	610	710	810	910	1110	1310
D	300	350	400	450	500	550	650	750
K	750	900	1050	1225	1375	1450	1755	2070

The required clearance height: $H_F = H + 60$ mm (with 3,0 kg/m fill weight)

- i** FL_G = with straight upper run S = Length of travel H = Nominal clearance height D = Overlength e-chain®, radius in final position
- FL_B = with permitted sag R = Bending radius H_F = Required clearance height $K = \pi \cdot R + \text{"safety"}$



e-chains® | Series 15050 crossbars every link | Series 15150 crossbars every 2nd link

Part No.		<i>Bi</i>	<i>Ba</i>	15050	15150
crossbars every link	crossbars every 2 nd link	[mm]	[mm]	[kg/m]	[kg/m]
15050. 15150. 05. R.0		50	80	≈ 3,85	≈ 3,84
15050. 15150. 06. R.0		65	95	≈ 3,95	≈ 3,88
15050. 15150. 07. R.0		75	105	≈ 4,00	≈ 3,92
15050. 15150. 08. R.0		87	117	≈ 4,05	≈ 3,96
15050. 15150. 10. R.0		100	130	≈ 4,18	≈ 4,00
15050. 15150. 11. R.0		112	143	≈ 4,31	≈ 4,07
15050. 15150. 12. R.0		125	155	≈ 4,38	≈ 4,10
15050. 15150. 13. R.0		137	168	≈ 4,51	≈ 4,17
15050. 15150. 15. R.0		150	180	≈ 4,58	≈ 4,20
15050. 15150. 16. R.0		162	193	≈ 4,69	≈ 4,26
15050. 15150. 17. R.0		175	205	≈ 4,80	≈ 4,31
15050. 15150. 18. R.0		187	218	≈ 4,91	≈ 4,37
15050. 15150. 20. R.0		200	230	≈ 4,93	≈ 4,38
15050. 15150. 21. R.0		212	243	≈ 5,04	≈ 4,43
15050. 15150. 22. R.0		225	255	≈ 5,10	≈ 4,47
15050. 15150. 23. R.0		237	268	≈ 5,24	≈ 4,53
15050. 15150. 25. R.0		250	280	≈ 5,32	≈ 4,58
15050. 15150. 26. R.0		262	293	≈ 5,41	≈ 4,62
15050. 15150. 27. R.0		275	305	≈ 5,52	≈ 4,68
15050. 15150. 28. R.0		287	318	≈ 5,54	≈ 4,69
15050. 15150. 30. R.0		300	330	≈ 5,76	≈ 4,80

Part No.		<i>Bi</i>	<i>Ba</i>	15050	15150
crossbars every link	crossbars every 2 nd link	[mm]	[mm]	[kg/m]	[kg/m]
15050. 15150. 31. R.0		312	343	≈ 5,80	≈ 4,82
15050. 15150. 32. R.0		325	355	≈ 5,85	≈ 4,84
15050. 15150. 33. R.0		337	368	≈ 6,03	≈ 4,93
15050. 15150. 35. R.0		350	380	≈ 6,18	≈ 5,01
15050. 15150. 36. R.0		362	393	≈ 6,19	≈ 5,02
15050. 15150. 37. R.0		375	405	≈ 6,20	≈ 5,02
15050. 15150. 38. R.0		387	418	≈ 6,29	≈ 5,06
15050. 15150. 40. R.0		400	430	≈ 6,49	≈ 5,16
15050. 15150. 41. R.0		412	443	≈ 6,64	≈ 5,24
15050. 15150. 42. R.0		425	455	≈ 6,80	≈ 5,31
15050. 15150. 43. R.0		437	468	≈ 6,86	≈ 5,35
15050. 15150. 45. R.0		450	480	≈ 6,93	≈ 5,38
15050. 15150. 46. R.0		462	493	≈ 6,95	≈ 5,39
15050. 15150. 47. R.0		475	505	≈ 7,08	≈ 5,46
15050. 15150. 48. R.0		487	518	≈ 7,16	≈ 5,49
15050. 15150. 50. R.0		500	530	≈ 7,22	≈ 5,52
15050. 15150. 51. R.0		512	543	≈ 7,24	≈ 5,53
15050. 15150. 52. R.0		525	555	≈ 7,28	≈ 5,56
15050. 15150. 53. R.0		537	568	≈ 7,44	≈ 5,63
15050. 15150. 55. R.0		550	580	≈ 7,92	≈ 5,87
15050. 15150. 60. R.0		600	630	≈ 8,12	≈ 5,97

Available bending radii *R* [mm] 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600

Supplement Part No. with required radius (*R*). Example: 15050.30.300.0

When to use e-chains® with crossbars every link: ● Lateral acceleration > 0,5m/s² ● High fill weights and rigid hydraulic hoses ● Humidity: > 85%, temperature: > 50°C (122° F)

When to use e-chains® with crossbars every 2nd link: ● Suitable for nearly all applications ● Lower price



Part No. of e-chain® links as single parts ► page 7.163



Standard e-chains® incl. accessories from stock. Delivery in 24h or today.*

*Delivery time means time until shipping of goods

fully enclosed



e-tubes | Series 19850 - fully enclosed

Part No. fully enclosed	<i>Bi</i> [mm]	<i>Ba</i> [mm]	19850 [kg/m]
19850. 07. R.0	75	105	≈ 4,46
19850. 10. R.0	100	130	≈ 4,74
19850. 12. R.0	125	155	≈ 5,10
19850. 15. R.0	150	180	≈ 5,53
19850. 17. R.0	175	205	≈ 5,88
19850. 20. R.0	200	230	≈ 6,11

Part No. fully enclosed	<i>Bi</i> [mm]	<i>Ba</i> [mm]	19850 [kg/m]
19850. 25. R.0	250	280	≈ 6,83
19850. 27. R.0	275	305	≈ 7,26
19850. 30. R.0	300	330	≈ 7,49
19850. 35. R.0	350	380	≈ 8,24
19850. 40. R.0	400	430	≈ 9,20
19850. 46. R.0	462	493	≈ 9,66

Available bending radii *R* [mm] 200 | 250 | 300 | 350 | 400 | 500 | 600

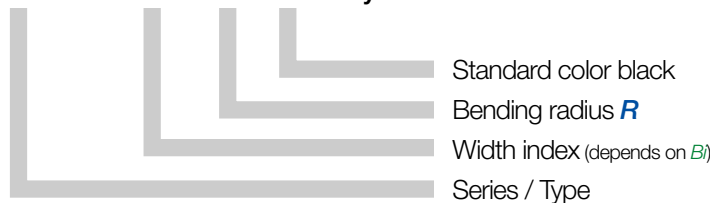
Supplement Part No. with required radius (*R*). Example: 19850.30.300.0

When to use fully enclosed e-tubes: ● Excellent cable protection against dirt ● Lids along the entire inner radius are completely removable. Lids along the entire outer radius are single sided snap-open with a hinge on the other side to keep them attached to the e-chain® or completely removable ● HT-Version optional, protection against hot chips up to 850°C (1562° F)

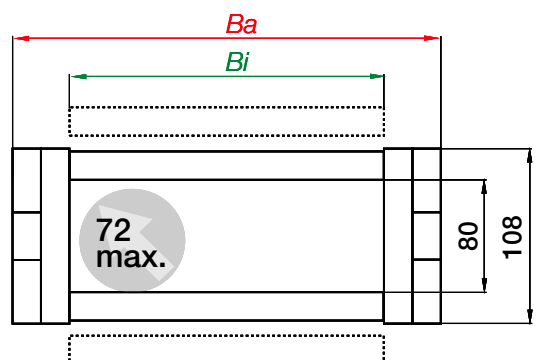


Order key for all types

- 15050. 30. 300. 0 e-chain® (crossbars every link)
- 15150. 30. 300. 0 e-chain® (crossbars every 2nd link)
- 19850. 30. 300. 0 Fully enclosed e-tube



Dimensioning



- 15050.30.300.0 = e-chain® with crossbars every link, inner width *Bi* 300 mm, radius *R* 300 mm, color black
 - 15150.30.300.0 = e-chain® with crossbars every 2nd link, inner width *Bi* 300 mm, radius *R* 300 mm, color black
 - 19850.30.300.0 = Fully enclosed e-tube, inner width *Bi* 300 mm, radius *R* 300 mm, color black
- More order examples, variations and configurations ► page 7.232



Standard e-tubes incl. accessories from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

15050
15150
19850

E4/light | 15050·15150·19850 | Product range | Options



QuickLock crossbars | Quick opening - up to 25% faster assembly

Part No.	QuickLock crossbar for	<i>Bi</i>		
crossbars every link	crossbars every 2 nd link			
	Inner radius	Outer radius		
	Both radii	[mm]		
15050. 15150.	15QZ.R.0	15QE.R.0	15Q.R.0	150
15050. 15150.	16QZ.R.0	16QE.R.0	16Q.R.0	162
15050. 15150.	17QZ.R.0	17QE.R.0	17Q.R.0	175
15050. 15150.	18QZ.R.0	18QE.R.0	18Q.R.0	187
15050. 15150.	20QZ.R.0	20QE.R.0	20Q.R.0	200
15050. 15150.	21QZ.R.0	21QE.R.0	21Q.R.0	212
15050. 15150.	22QZ.R.0	22QE.R.0	22Q.R.0	225
15050. 15150.	23QZ.R.0	23QE.R.0	23Q.R.0	237
15050. 15150.	25QZ.R.0	25QE.R.0	25Q.R.0	250
15050. 15150.	26QZ.R.0	26QE.R.0	26Q.R.0	262
15050. 15150.	27QZ.R.0	27QE.R.0	27Q.R.0	275
15050. 15150.	28QZ.R.0	28QE.R.0	28Q.R.0	287
15050. 15150.	30QZ.R.0	30QE.R.0	30Q.R.0	300
15050. 15150.	31QZ.R.0	31QE.R.0	31Q.R.0	312
15050. 15150.	32QZ.R.0	32QE.R.0	32Q.R.0	325
15050. 15150.	33QZ.R.0	33QE.R.0	33Q.R.0	337
15050. 15150.	35QZ.R.0	35QE.R.0	35Q.R.0	350
15050. 15150.	36QZ.R.0	36QE.R.0	36Q.R.0	362
15050. 15150.	37QZ.R.0	37QE.R.0	37Q.R.0	375
15050. 15150.	38QZ.R.0	38QE.R.0	38Q.R.0	387
15050. 15150.	40QZ.R.0	40QE.R.0	40Q.R.0	400

Part No.	QuickLock crossbar for	<i>Bi</i>		
crossbars every link	crossbars every 2 nd link			
	Inner radius	Outer radius		
	Both radii	[mm]		
15050. 15150.	41QZ.R.0	41QE.R.0	41Q.R.0	412
15050. 15150.	42QZ.R.0	42QE.R.0	42Q.R.0	425
15050. 15150.	43QZ.R.0	43QE.R.0	43Q.R.0	437
15050. 15150.	45QZ.R.0	45QE.R.0	45Q.R.0	450
15050. 15150.	46QZ.R.0	46QE.R.0	46Q.R.0	462
15050. 15150.	47QZ.R.0	47QE.R.0	47Q.R.0	475
15050. 15150.	48QZ.R.0	48QE.R.0	48Q.R.0	487
15050. 15150.	50QZ.R.0	50QE.R.0	50Q.R.0	500
15050. 15150.	51QZ.R.0	51QE.R.0	51Q.R.0	512
15050. 15150.	52QZ.R.0	52QE.R.0	52Q.R.0	525
15050. 15150.	53QZ.R.0	53QE.R.0	53Q.R.0	537
15050. 15150.	55QZ.R.0	55QE.R.0	55Q.R.0	550
15050. 15150.	60QZ.R.0	60QE.R.0	60Q.R.0	600

QuickLock crossbars: inner widths from 150 mm possible!

Available bending radii *R* [mm] 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600

Supplement Part No. with required radius (*R*). Example: 15050.30QZ.300.0



For e-chains® with QuickLock crossbar supplement Part No. with required Index QZ / QE / Q

Part No. 15050.30QZ.300.0 = QuickLock crossbar for inner radius

Part No. 15050.30QE.300.0 = QuickLock crossbar for outer radius

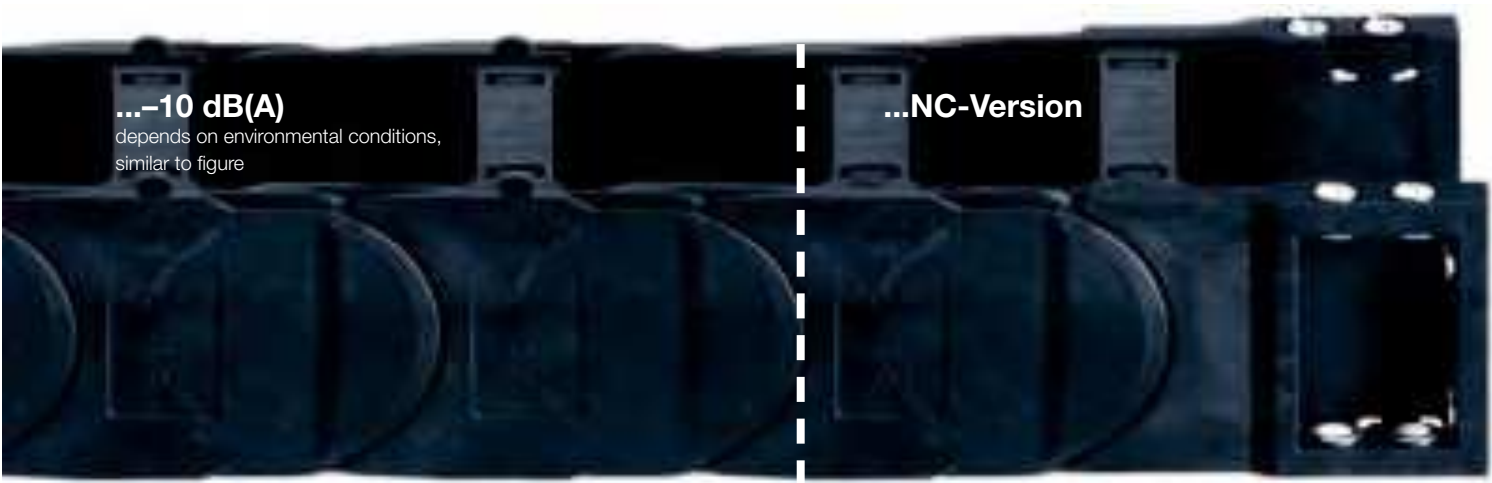
Part No. 15050.30Q .300.0 = QuickLock crossbar for both radii



e-chain® with QuickLock crossbars - Delivery time: 3-5 work days.*

*Delivery time means time until shipping of goods

E4/light | 15050·15150·19850 | Product range | Options



Noise dampening | ≈ -10 dB(A)



NC-Version | Without pretension

With pads			<i>Bi</i>		With pads			<i>Bi</i>	
crossbars: every link	e-tube every 2nd link fully enclosed		[mm]		crossbars: every link	e-tube every 2nd link fully enclosed		[mm]	
S15050.	S15150.	-	05.R.0	50	S15050.	S15150.	-	31.R.0	312
S15050.	S15150.	-	06.R.0	65	S15050.	S15150.	-	32.R.0	325
S15050.	S15150.	S19850.	07.R.0	75	S15050.	S15150.	-	33.R.0	337
S15050.	S15150.	-	08.R.0	87	S15050.	S15150.	S19850.	35.R.0	350
S15050.	S15150.	S19850.	10.R.0	100	S15050.	S15150.	-	36.R.0	362
S15050.	S15150.	-	11.R.0	112	S15050.	S15150.	-	37.R.0	375
S15050.	S15150.	S19850.	12.R.0	125	S15050.	S15150.	-	38.R.0	387
S15050.	S15150.	-	13.R.0	137	S15050.	S15150.	S19850.	40.R.0	400
S15050.	S15150.	S19850.	15.R.0	150	S15050.	S15150.	-	41.R.0	412
S15050.	S15150.	-	16.R.0	162	S15050.	S15150.	-	42.R.0	425
S15050.	S15150.	S19850.	17.R.0	175	S15050.	S15150.	-	43.R.0	437
S15050.	S15150.	-	18.R.0	187	S15050.	S15150.	-	45.R.0	450
S15050.	S15150.	S19850.	20.R.0	200	S15050.	S15150.	S19850.	46.R.0	462
S15050.	S15150.	-	21.R.0	212	S15050.	S15150.	-	47.R.0	475
S15050.	S15150.	-	22.R.0	225	S15050.	S15150.	-	48.R.0	487
S15050.	S15150.	-	23.R.0	237	S15050.	S15150.	-	50.R.0	500
S15050.	S15150.	S19850.	25.R.0	250	S15050.	S15150.	-	51.R.0	512
S15050.	S15150.	-	26.R.0	262	S15050.	S15150.	-	52.R.0	525
S15050.	S15150.	S19850.	27.R.0	275	S15050.	S15150.	-	53.R.0	537
S15050.	S15150.	-	28.R.0	287	S15050.	S15150.	-	55.R.0	550
S15050.	S15150.	S19850.	30.R.0	300	S15050.	S15150.	-	60.R.0	600

NC-Version			<i>Bi</i>		NC-Version			<i>Bi</i>	
crossbars: every link	e-tube every 2nd link fully enclosed		[mm]		crossbars: every link	e-tube every 2nd link fully enclosed		[mm]	
15050.	15150.	-	05. R.0.NC	50	15050.	15150.	-	31. R.0.NC	312
15050.	15150.	-	06. R.0.NC	65	15050.	15150.	-	32. R.0.NC	325
15050.	15150.	19850.	07. R.0.NC	75	15050.	15150.	-	33. R.0.NC	337
15050.	15150.	-	08. R.0.NC	87	15050.	15150.	19850.	35. R.0.NC	350
15050.	15150.	19850.	10. R.0.NC	100	15050.	15150.	-	36. R.0.NC	362
15050.	15150.	-	11. R.0.NC	112	15050.	15150.	-	37. R.0.NC	375
15050.	15150.	19850.	12. R.0.NC	125	15050.	15150.	-	38. R.0.NC	387
15050.	15150.	-	13. R.0.NC	137	15050.	15150.	19850.	40. R.0.NC	400
15050.	15150.	19850.	15. R.0.NC	150	15050.	15150.	-	41. R.0.NC	412
15050.	15150.	-	16. R.0.NC	162	15050.	15150.	-	42. R.0.NC	425
15050.	15150.	19850.	17. R.0.NC	175	15050.	15150.	-	43. R.0.NC	437
15050.	15150.	-	18. R.0.NC	187	15050.	15150.	-	45. R.0.NC	450
15050.	15150.	19850.	20. R.0.NC	200	15050.	15150.	19850.	46. R.0.NC	462
15050.	15150.	-	21. R.0.NC	212	15050.	15150.	-	47. R.0.NC	475
15050.	15150.	-	22. R.0.NC	225	15050.	15150.	-	48. R.0.NC	487
15050.	15150.	-	23. R.0.NC	237	15050.	15150.	-	50. R.0.NC	500
15050.	15150.	19850.	25. R.0.NC	250	15050.	15150.	-	51. R.0.NC	512
15050.	15150.	-	26. R.0.NC	262	15050.	15150.	-	52. R.0.NC	525
15050.	15150.	19850.	27. R.0.NC	275	15050.	15150.	-	53. R.0.NC	537
15050.	15150.	-	28. R.0.NC	287	15050.	15150.	-	55. R.0.NC	550
15050.	15150.	19850.	30. R.0.NC	300	15050.	15150.	-	60. R.0.NC	600

Available bending radii *R* [mm] 150* | 200 | 250 | 300 | 350 | 400 | 500 | 600 *not available for e-tubes

Supplement Part No. with required radius (*R*). Example: S15050.30.300.0 or 15050.30.300.0.NC



For e-chains® with noise dampening pads supplement Part No. with required index "S"

Example: Part No. S15050.30.300.0 = e-chain® (crossbars every link) with noise dampening

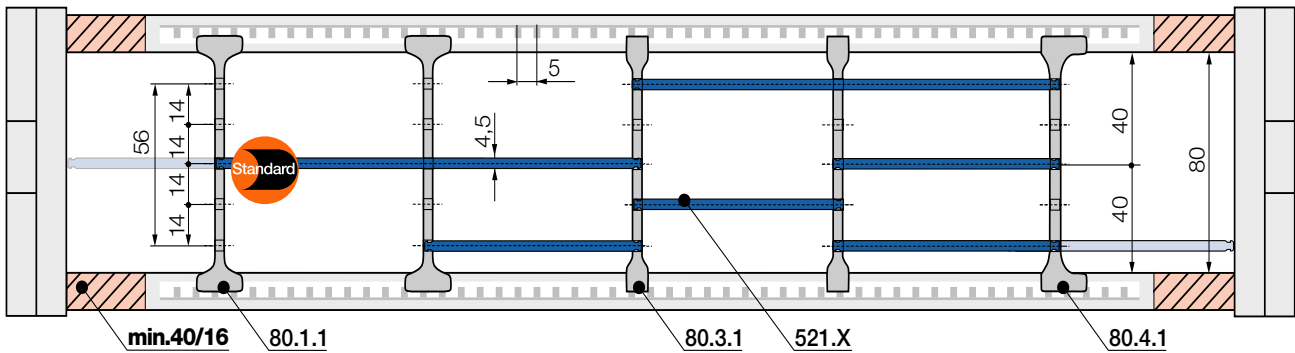
For NC-e-chains® without pretension supplement Part No. with required index "NC"

Example: Part No. 15050.30.300.0.NC = e-chain® (crossbars every link) without pretension

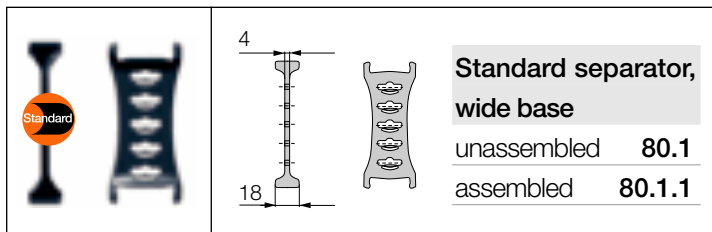


Low-noise e-chain® and NC-Version - Delivery time: 3-5 workdays*

*Delivery time means time until shipping of goods

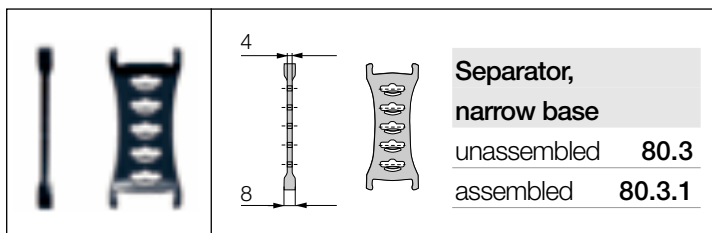


Note: Please observe a lateral spacing to the side links! **e-tube: 40 mm** | **e-chain®: 16 mm**
In the standard configuration separators are assembled every 2nd e-chain® link!



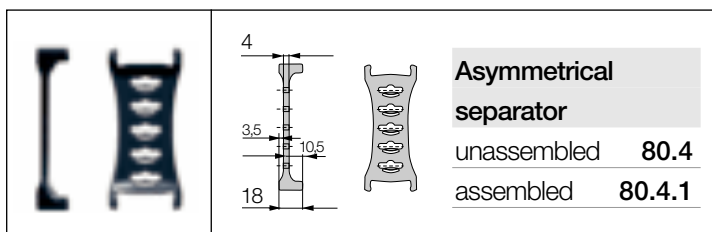
Standard - for all applications

Separator with a wide base for maximum locking strength and safe standing in e-chains® and e-tubes.



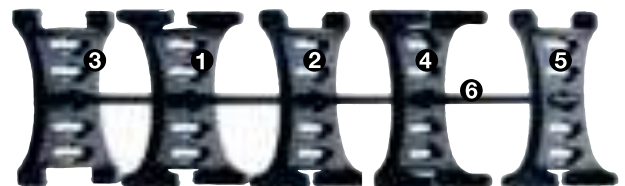
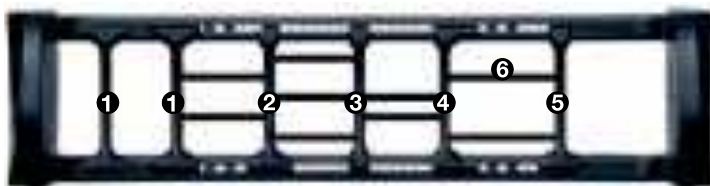
For many thin cables

Separator with a narrow base for a large number of thin cables side by side. Saves space in e-chains® and e-tubes. Also available for QuickLock crossbars.



For side-mounted applications

Asymmetrical separator, for defined distance. No additional spacers necessary for e-chains® and e-tubes.



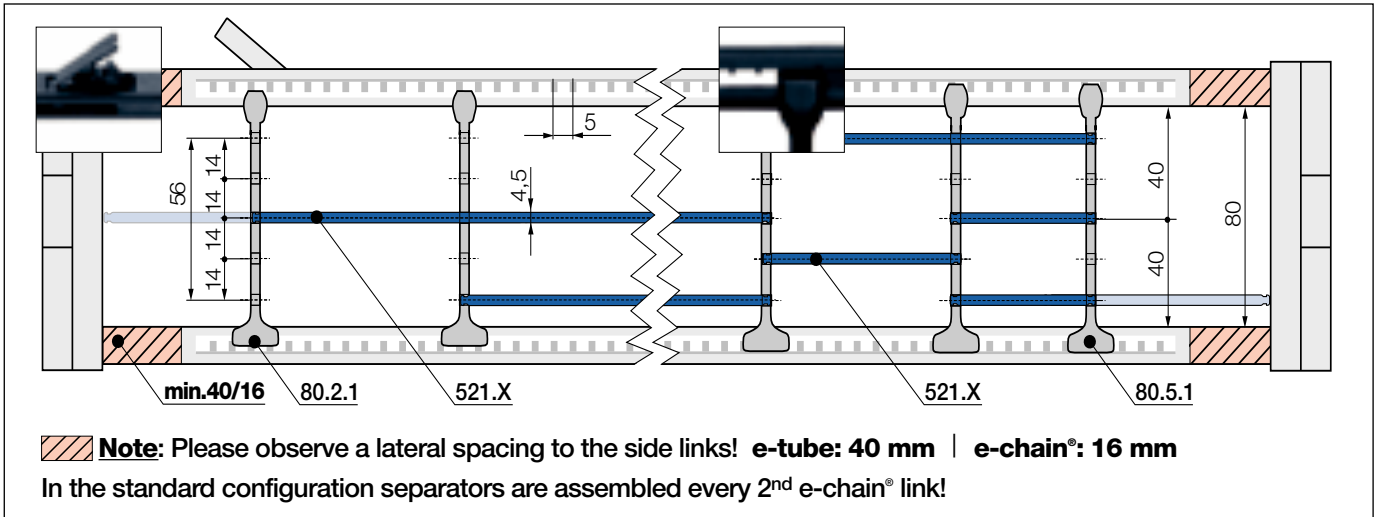
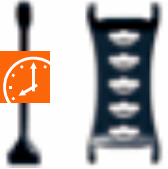
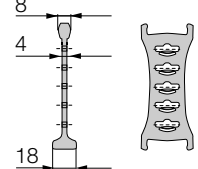
- ① Standard separator, wide base - Part No. 80.1
- ② Separator for QuickLock crossbar - Part No. 80.2
- ③ Separator, narrow base - Part No. 80.3
- ④ Separator, asymmetrical - Part No. 80.4
- ⑤ Notch separator - Part No. 80.5
- ⑥ Full-width self, lockable - Part No. 520.XX



Interior separation single-part order - Delivery in 24h or today!*

*Delivery time means time until shipping of goods


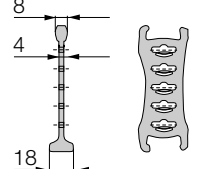
New generation interior separation

Separator for QuickLock crossbar
unassembled **80.2**
assembled **80.2.1**

For even faster installation


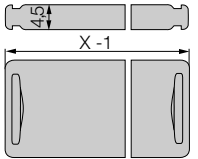
Separator for igus® QuickLock crossbar 450.X.Q. Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip). For e-tubes also.

Notch separator for notch crossbar
unassembled **80.5**
assembled **80.5.1**

Locks safely onto in 5 mm increments

Notch separator for the new notch crossbar, with scaling on the notch crossbars. For exact positioning in e-chains® and e-tubes. Recommended for side-mounted applications.

Full-width shelf, lockable
unassembled **520.X**
assembled **521.X**

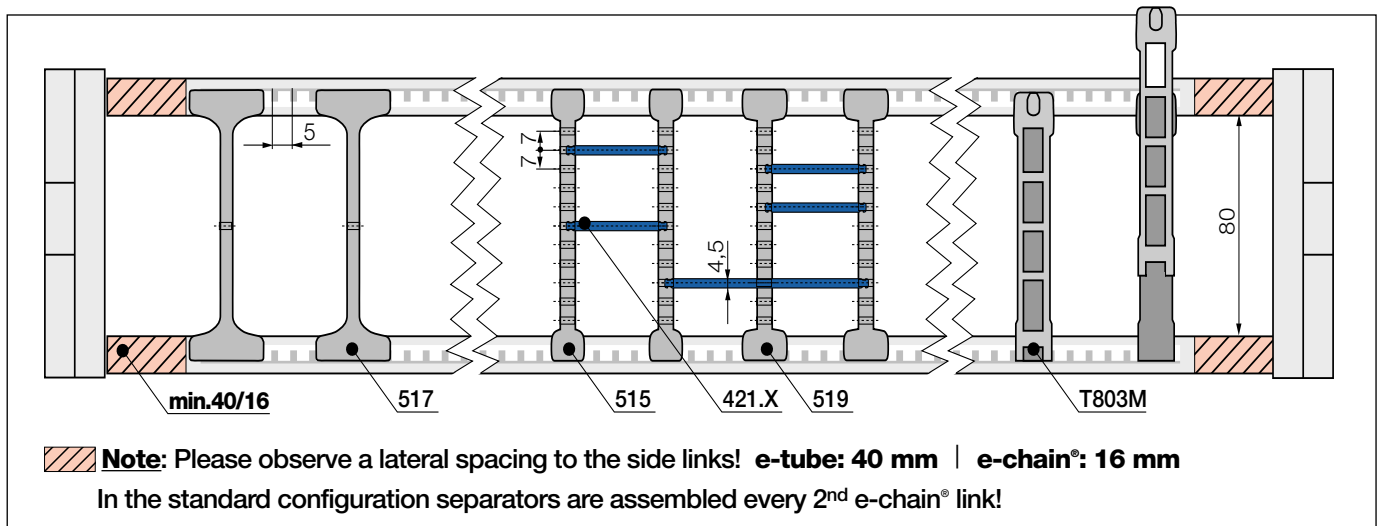
Horizontal separation

Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 5 levels.



Lockable full-width shelves - for the standard interior separation

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
050	520.050	521.050	125	520.125	521.125	225	520.225	521.225
065	520.065	521.065	150	520.150	521.150	250	520.250	521.250
075	520.075	521.075	175	520.175	521.175	300	520.300	521.300
100	520.100	521.100	200	520.200	521.200	450	520.450	521.450



		<p>Open slotted separator for e-chains®/e-tubes</p> <p>unassembled 509</p> <p>assembled 519</p>
		<p>Slotted separator for e-chains®/e-tubes</p> <p>unassembled 505</p> <p>assembled 515</p>
		<p>Split separator for e-chains®</p> <p>unassembled T803</p> <p>assembled T803M</p>
		<p>Locking separator for e-chains®</p> <p>unassembled 507</p> <p>assembled 517</p>
		<p>Shelf</p> <p>unassembled 420.X</p> <p>assembled 421.X</p>

Open, slotted separator 509 (unilateral open)

Fast assembly - can be retrofitted into an existing interior separation system without a need for dismantling the interior separators. During an installation of open slotted separators, the top and bottom notches cannot be occupied by shelves.

Slotted separator 505

For very fine subdivisions. However, they cannot be retrofitted into an existing separation system without dismantling the interior separators first.

Split separator T803 (e-chains® only)

Ideal for subsequent shelving or for the initial assembly of the e-chain® without a need for dismantling the interior separators.

Locking separator 507

For applications exposed to very high humidity (> 85%). **Extra retention force** by asymmetric claws. Ensure proper alignment. Tip: one locking vertical separator per e-chain® link for better mounting.

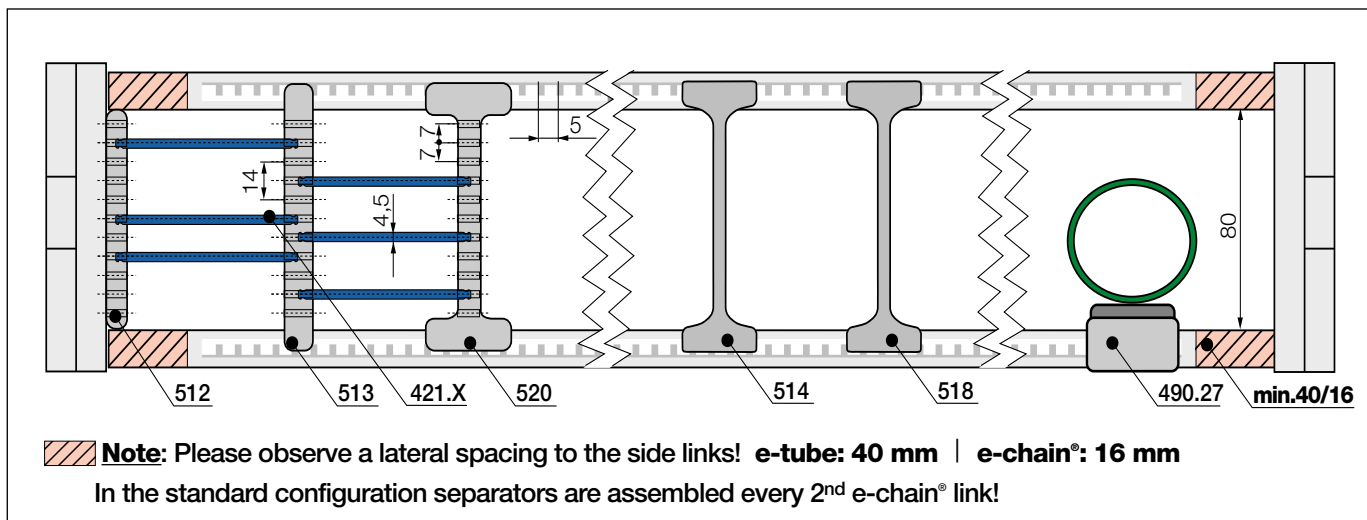
Shelf 420.X

For horizontal separation. Shelves of various widths can be arranged at 11 different heights (in 7 mm increments). (not in combination with 504, 508).

Shelves - interior separation options

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
018	420.18	421.18	050	420.50	421.50	150	420.150	421.150
023	420.23	421.23	062	420.62	421.62	175	420.175	421.175
025	420.25	421.25	075	420.75	421.75	187	420.187	421.187
028	420.28	421.28	088	420.88	421.88	200	420.200	421.200
033	420.33	421.33	100	420.100	421.100			
043	420.43	421.43	125	420.125	421.125			

Previous interior separation All elements can still be ordered ▶ www.igus.de/en/15050



		Middle plate for e-chains® / e-tubes unassembled 503 assembled 513
--	--	---

Middle plate 503 (e-chains® only)

Middle plates form the basic pattern of a shelf system. Shelves 420.X (table left page) can be arranged at 11 different heights (in 7 mm increments).

		Locking vertical separator for e-chains® unassembled 510 assembled 520
--	--	---

Locking vertical separator 510 (e-chains® only)

Works like middle plate, for applications exposed to very high humidity (> 85%).

		Side plate for e-chains® / e-tubes unassembled 502 assembled 512
--	--	---

Side plate 502

Works like middle plate. Allows modular shelving close to the side links.

		Locking separator for e-chains® unassembled 504 assembled 514
--	--	--

Locking separator 504

For applications exposed to very high humidity (> 85%). Locks with extra retention force. Tip: one locking separator per e-chain® link for better mounting.

		Locking separator for e-chains® unassembled 508 assembled 518
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Locking separator 508

For applications exposed to very high humidity (> 85%). **Extra retention force** by asymmetric claws. Ensure proper alignment. Tip: one Locking separator per e-chain® link for better mounting.

Additional elements for interior separation

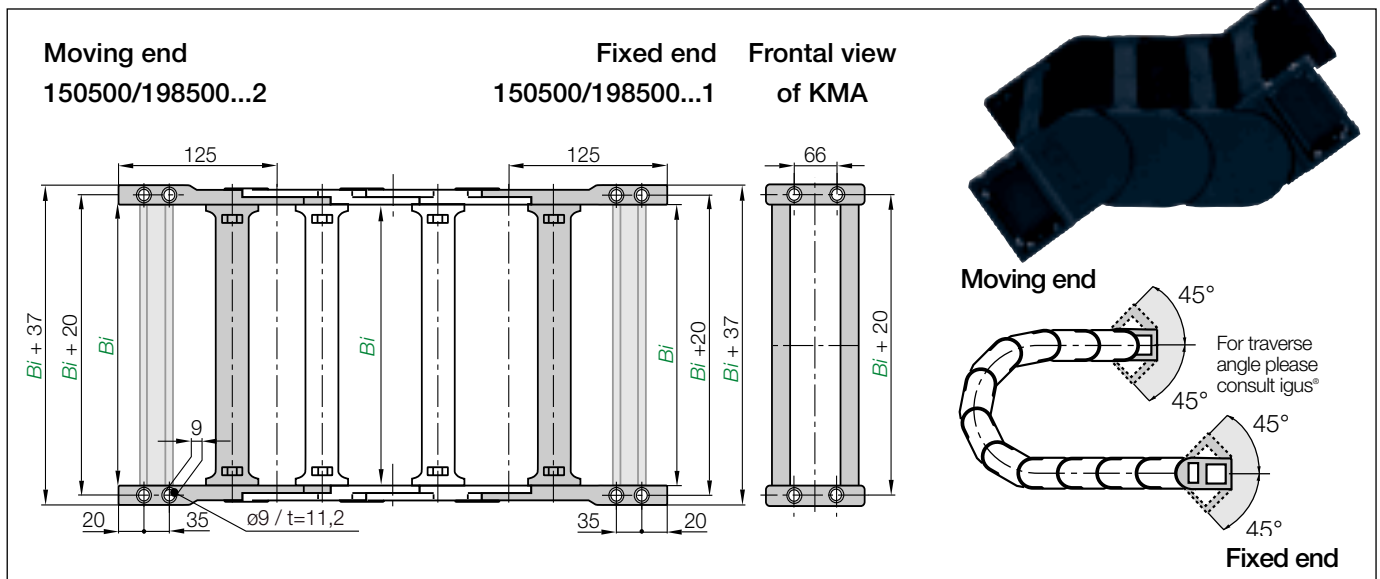
		Rollclip for e-chains® unassembled 489.27 assembled 490.27
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Rollclip

Minimizes abrasion of particularly sensitive hoses - simply clamped onto the opening crossbar. The movable rollers compensate for relative movement between the e-chain® and hose.

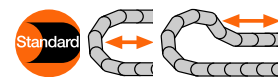
15050·15150·19850 | KMA mounting brackets pivoting

For tight installation conditions, all-sides attachment



KMA pivoting | All-sides attachment. Recommended for unsupported and gliding applications

Width index	Part No. full set pivoting (+ C-profile option)	Bi [mm]	Width index	Part No. full set pivoting (+ C-profile option)	Bi [mm]
05.	▶ 150500. – 05. 12.C 50	50	31.	▶ 150500. – 31. 12.C 312	312
06.	▶ 150500. – 06. 12.C 65	65	32.	▶ 150500. – 32. 12.C 325	325
07.	▶ 150500. 198500. 07. 12.C 75	75	33.	▶ 150500. – 33. 12.C 337	337
08.	▶ 150500. – 08. 12.C 87	87	35.	▶ 150500. 198500. 35. 12.C 350	350
10.	▶ 150500. 198500. 10. 12.C 100	100	36.	▶ 150500. – 36. 12.C 362	362
11.	▶ 150500. – 11. 12.C 112	112	37.	▶ 150500. – 37. 12.C 375	375
12.	▶ 150500. 198500. 12. 12.C 125	125	38.	▶ 150500. – 38. 12.C 387	387
13.	▶ 150500. – 13. 12.C 137	137	40.	▶ 150500. 198500. 40. 12.C 400	400
15.	▶ 150500. 198500. 15. 12.C 150	150	41.	▶ 150500. – 41. 12.C 412	412
16.	▶ 150500. – 16. 12.C 162	162	42.	▶ 150500. – 42. 12.C 425	425
17.	▶ 150500. 198500. 17. 12.C 175	175	43.	▶ 150500. – 43. 12.C 437	437
18.	▶ 150500. – 18. 12.C 187	187	45.	▶ 150500. – 45. 12.C 450	450
20.	▶ 150500. 198500. 20. 12.C 200	200	46.	▶ 150500. 198500. 46. 12.C 462	462
21.	▶ 150500. – 21. 12.C 212	212	47.	▶ 150500. – 47. 12.C 475	475
22.	▶ 150500. – 22. 12.C 225	225	48.	▶ 150500. – 48. 12.C 487	487
23.	▶ 150500. – 23. 12.C 237	237	50.	▶ 150500. – 50. 12.C 500	500
25.	▶ 150500. 198500. 25. 12.C 250	250	51.	▶ 150500. – 51. 12.C 512	512
26.	▶ 150500. – 26. 12.C 262	262	52.	▶ 150500. – 52. 12.C 525	525
27.	▶ 150500. 198500. 27. 12.C 275	275	53.	▶ 150500. – 53. 12.C 537	537
28.	▶ 150500. – 28. 12.C 287	287	55.	▶ 150500. – 55. 12.C 550	550
30.	▶ 150500. 198500. 30. 12.C 300	300	60.	▶ 150500. – 60. 12.C 600	600



- Standard
- For tight installation conditions
- Option: integrated chainfix strain relief with C-profile
- Corrosion resistant
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting)

150500.30.12.C



Single-part order:

Mounting bracket **Moving end**

150500.30.2.C

Mounting bracket **Fixed end**

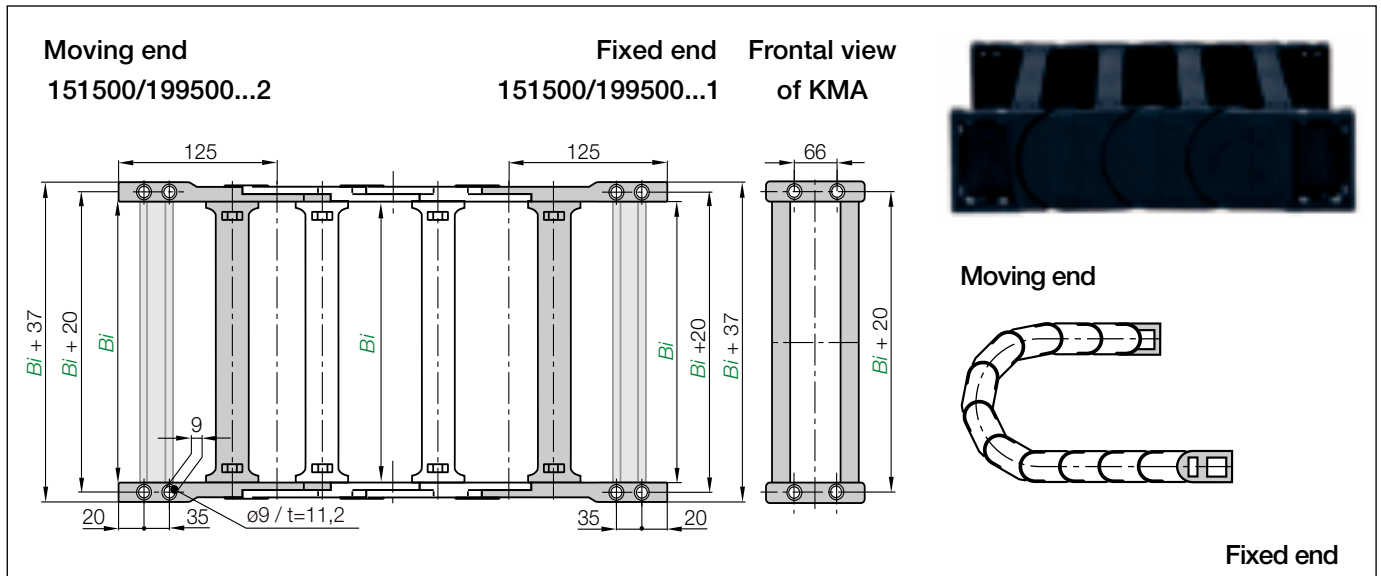
150500.30.1.C



Strain relief, e.g. clamps, tiwrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

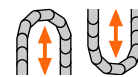
15050·15150·19850 | KMA mounting brackets locking

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment. Recommended for vertical hanging and standing applications

Width index	Part No. full set locking (+ C-profile option)	Bi [mm]	Width index	Part No. full set locking (+ C-profile option)	Bi [mm]
05.	▶ 151500. – 05. 12.C 50	50	31.	▶ 151500. – 31. 12.C 312	312
06.	▶ 151500. – 06. 12.C 65	65	32.	▶ 151500. – 32. 12.C 325	325
07.	▶ 151500. 199500. 07. 12.C 75	75	33.	▶ 151500. – 33. 12.C 337	337
08.	▶ 151500. – 08. 12.C 87	87	35.	▶ 151500. 199500. 35. 12.C 350	350
10.	▶ 151500. 199500. 10. 12.C 100	100	36.	▶ 151500. – 36. 12.C 362	362
11.	▶ 151500. – 11. 12.C 112	112	37.	▶ 151500. – 37. 12.C 375	375
12.	▶ 151500. 199500. 12. 12.C 125	125	38.	▶ 151500. – 38. 12.C 387	387
13.	▶ 151500. – 13. 12.C 137	137	40.	▶ 151500. 199500. 40. 12.C 400	400
15.	▶ 151500. 199500. 15. 12.C 150	150	41.	▶ 151500. – 41. 12.C 412	412
16.	▶ 151500. – 16. 12.C 162	162	42.	▶ 151500. – 42. 12.C 425	425
17.	▶ 151500. 199500. 17. 12.C 175	175	43.	▶ 151500. – 43. 12.C 437	437
18.	▶ 151500. – 18. 12.C 187	187	45.	▶ 151500. – 45. 12.C 450	450
20.	▶ 151500. 199500. 20. 12.C 200	200	46.	▶ 151500. 199500. 46. 12.C 462	462
21.	▶ 151500. – 21. 12.C 212	212	47.	▶ 151500. – 47. 12.C 475	475
22.	▶ 151500. – 22. 12.C 225	225	48.	▶ 151500. – 48. 12.C 487	487
23.	▶ 151500. – 23. 12.C 237	237	50.	▶ 151500. – 50. 12.C 500	500
25.	▶ 151500. 199500. 25. 12.C 250	250	51.	▶ 151500. – 51. 12.C 512	512
26.	▶ 151500. – 26. 12.C 262	262	52.	▶ 151500. – 52. 12.C 525	525
27.	▶ 151500. 199500. 27. 12.C 275	275	53.	▶ 151500. – 53. 12.C 537	537
28.	▶ 151500. – 28. 12.C 287	287	55.	▶ 151500. – 55. 12.C 550	550
30.	▶ 151500. 199500. 30. 12.C 300	300	60.	▶ 151500. – 60. 12.C 600	600



- Locked connections
- At high acceleration
- Universally mountable
- C-profile option
- Corrosion resistant
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (locking)

151500.30.12.C



Single-part order:

Mounting bracket **Moving end**

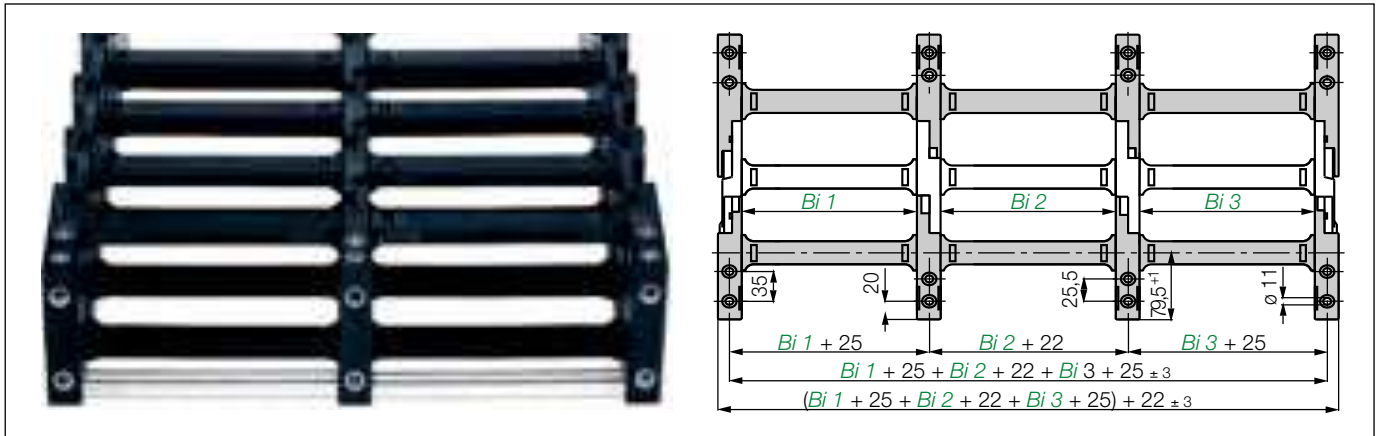
151500.30.2.C

Mounting bracket **Fixed end**

151500.30.1.C



Strain relief, e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1



Extension links | for extremely wide e-chains® up to 3,0 m



Order example - 3 chambers

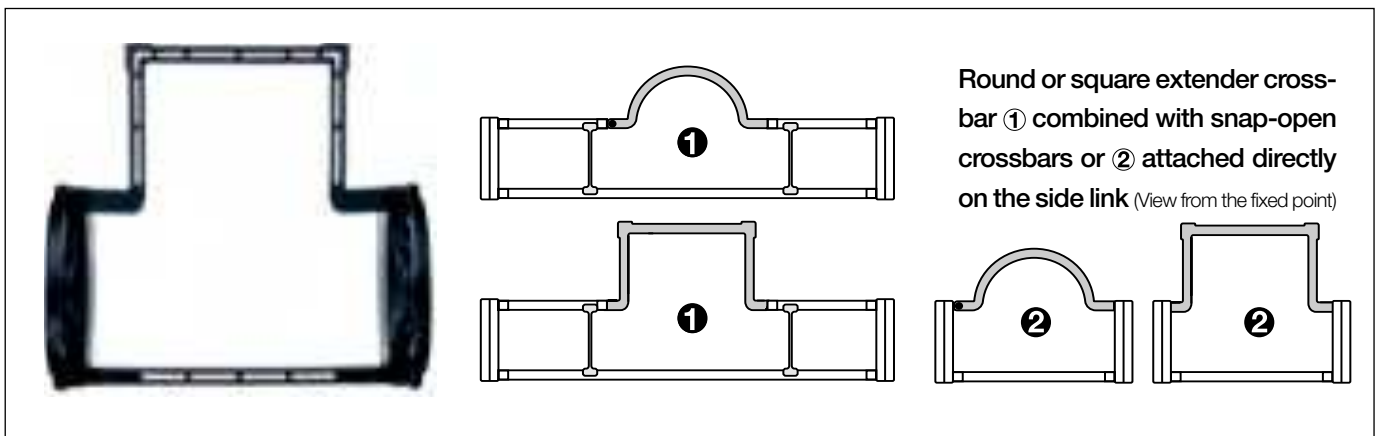
15050.Bi1 / Bi2 / Bi3.R.0 =

15050.10 / 20 / 10.200.0

Extension links: single-part order:

522.R. (please indicate radius)

- The extension link design allows virtually limitless side-by-side attachment
- High fill weights necessitate extremely wide e-chains® (up to 3000 mm)
- The unsupported length FL_G max. can be increased when additional loads are required
- Suitable for unsupported and gliding applications in a guide trough
- Attachment with KMA or steel mounting brackets



Round or square extender crossbar ① combined with snap-open crossbars or ② attached directly on the side link (View from the fixed point)

Extender crossbars | careful guide of hoses applications



Order examples - extender crossbar

① Combination with snap-open crossbars

RHD115 for outer radius "E" incl. e-chain®:

15050.10/15RHDE115/10.R.0

RHD115 for inner radius "Z" incl. e-chain®:

15050.10/15RHDZ115/10.R.0

② Installation on side link

RD115 for outer radius "E" incl. e-chain®:

15050.17RDE115.R.0

RD115 for inner radius "Z" incl. e-chain®:

15050.17RDZ115.R.0

- Suitable for hoses with a maximum outer diameter of 270 mm
- Gliding with crossbars assembled along outer radius and a special guide trough
- Extender crossbar ① for snap-open crossbars or ② attached directly on the side link

Part No. single part	Max Ø [mm] hose	Form	② Installation on side link	① Combination with snap-open crossbars
450.15.RHD115	115	○ round	no	yes
450.17.RD115	115	○ round	yes	no
450.25.D150	150	□ square	yes	no
450.30.D200	200	□ square	yes	no
450.35.D250	220	□ square	yes	no
450.40.D300	270	□ square	yes	no
450.20.HD150	150	□ square	no	yes
450.25.HD200	200	□ square	no	yes
450.30.HD250	220	□ square	no	yes

E4/light | 15050·15150·19850 | Me options



E4 snapclip | clip-on cable binder

- For side-mounted applications
- Serves as a clip-on, lateral guide for hoses and cables on e-chains®
- The loops can be adjusted as required
- Compatible with many E4 e-chains®
- Stylish and economical
- One clip and one locking band are needed for each e-chain® link



Order example (here: inner width B_i 18) Locking clip, to open along inner radius "Z" **15050.15.B12.200Z.R.0**
Locking clip, to open along outer radius "E" **15050.15.B12.200E.R.0**

Part No.	Form
450.B12	Locking clip, comprising a locking element
450.B12.200	Locking band, comprising a locking element and band; 12,5mm

E4/light | 15050·15150·19850 | e-chain® accessories



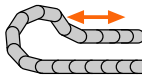
Strain relief system

Camps, tiewrap plates, nuggets and plug-in clips. The complete chainfix range with many order options ▶ from page 10.1



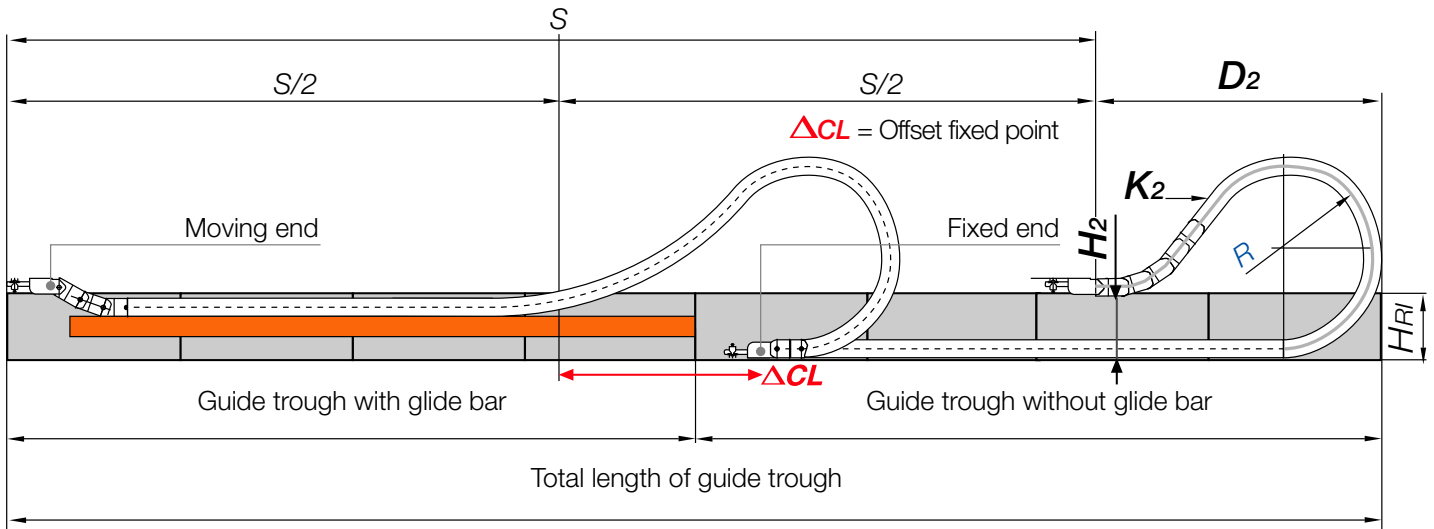
Support tray tool kit

For support of the lower run. Simple one-piece support trays according to your requirements and specification ▶ from page 9.70



Gliding applications | For long travels from 12 m to max. 250 m

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. For travels more than 100 m we recommend to realize the engineering of such a plant by our technicians. **In case of travels between 9 and 12 m we recommend a longer unsupported length.** More information ► **Design, from page 1.16.**



Pitch = 91 mm/link · Links/m = 11 (1001 mm) · Chain length = $S/2 + K$

R	150	200	250	300	350	400	500	600*
H ₂	242	242	242	242	242	242	242	*
D ₂ +25	550	800	950	1200	1550	1700	2175	*
K ₂	910	1274	1638	2002	2457	2730	3458	*
ΔCL	209	409	509	709	1009	1109	1484	*

*R600 not suitable for long travel applications. Please consult igus®

More solutions | for long travels

System P4.80 - Profile rol e-chain®, low-noise

Travels up to 800 m v_{max} 10 m/s

Safe, maintenance-free for outdoor cranes or conveyor systems. Low-noise operation, high service life ► page 9.85

rol e-chain® 5050R - Rolling instead of gliding

Travels up to 800 m v_{max} 6,0 m/s

Major reduction in drive power to less than 25 % for moving the e-chain® ► page 9.88

autoglide 15050.Bi.R.0.AG - Self-guiding, no guide troughs

Travels ≤ 50 m v_{max} 1,5 m/s

Self-guiding e-chainsystems® - No guide troughs required! ► upon request

Specialty:

guidelok horizontal - Upper run guide, unsupported

Travels ≤ 50 m

Chips cannot get stuck between upper and lower run - enormous increase of "self supporting" length of e-chains® ► page 9.97



The complete range of special solutions for long travel applications incl. order function ► from page 9.76



H₂ = Mounting height (if the moving end is set lower)
D₂ = Over length - long travels, gliding

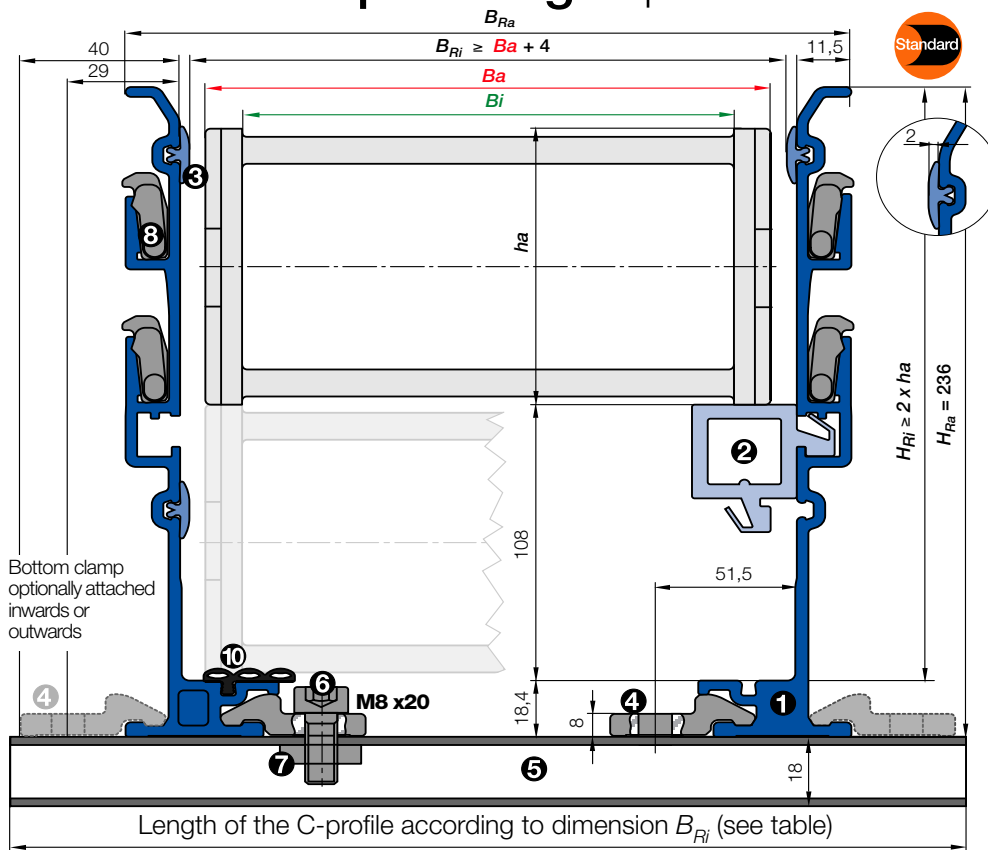
K₂ = Further add-on (if the moving end is set lower)
R = Bending radius

ΔCL = Offset fixed point
H_{Ri} = Inner trough height

S = Length of travel
S/2 = Half length of travel

Aluminum "SuperTrough" | Basic Version

15050
15150
19850



- **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request) ⑩ Optional: Silencer profile, rubber
- **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, galvanized steel ▶ table ⑥ Screw M8 x 20 ⑦ Sliding nut M8 ⑧ Interface connector, plastic



Order example: Length of travel 30 m - Center mounted for Series 15050.30.300.0 with $B_{Ri} = 334$

Guide trough set without glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough without glide bar (8 x 2 m sections) **Part No. 975.30.SL**

Guide trough set with glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough with glide bar (8 x 2 m sections) **Part No. 975.31.SL**

Installation set "Basic" complete (guide trough-sets + 1)

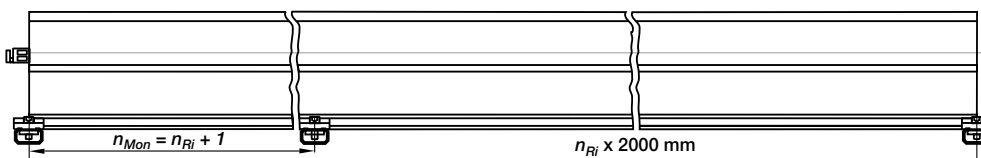
Order text: 17 installation sets **Part No. 960.50.400**

Module for the fixed end ▶ page 9.16

Order text: 1 set **Part No. 975.80**

Option: For an additional noise dampening

with silencer profile, please add Index A - Example: **Part No. 975.30.SLA**



Principle sketch: Number of installation sets to be installed = Number of trough sections + 1



Details about Alu "SuperTrough" and the "Heavy Duty" version for heavy machinery ▶ from page 9.38



- Trough set
- Installation set
- Glide bar
- C-Profile
- B_a = Outer width e-chains*
- B_i = Inner width e-chains*

- B_{Ri} = Inner trough width
- B_{Ra} = Outer trough width
- H_{Ri} = Inner trough height

- H_{Ra} = Outer trough height
- n_{Mon} = Number of installation sets
- n_{Ri} = Number of trough sets

Installation set "Basic" with C-Profile

Bottom clamp optionally attached inwards or outwards

15050.30.300.0 ▶ Order example

	B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.05	84	-	960.50.200
.06	99	-	960.50.225
.07	109	-	960.50.225
.08	121	-	960.50.250
.10	134	-	960.50.250
.11	146	960.50.200	960.50.275
.12	159	960.50.225	960.50.275
.13	171	960.50.225	960.50.300
.15	184	960.50.250	960.50.300
.16	196	960.50.250	960.50.325
.17	209	960.50.275	960.50.325
.18	221	960.50.275	960.50.350
.20	234	960.50.300	960.50.350
.21	246	960.50.300	960.50.375
.22	259	960.50.325	960.50.375
.23	271	960.50.325	960.50.400
.25	284	960.50.350	960.50.400
.26	296	960.50.350	960.50.425
.27	309	960.50.375	960.50.425
.28	321	960.50.375	960.50.450
.30	334	960.50.400	960.50.450
.31	346	960.50.400	960.50.475
.32	359	960.50.425	960.50.475
.33	371	960.50.425	960.50.500
.35	384	960.50.450	960.50.500
.36	396	960.50.450	960.50.525
.37	409	960.50.475	960.50.525
.38	421	960.50.475	960.50.550
.40	434	960.50.500	960.50.550
.41	446	960.50.500	960.50.575
.42	459	960.50.525	960.50.575
.43	471	960.50.525	960.50.600
.45	484	960.50.550	960.50.600
.46	496	960.50.550	960.50.625
.47	509	960.50.575	960.50.625
.48	521	960.50.575	960.50.650
.50	534	960.50.600	960.50.650
.51	546	960.50.600	960.50.675
.52	559	960.50.625	960.50.675
.53	571	960.50.625	960.50.700
.55	584	960.50.650	960.50.700
.60	634	960.50.700	960.50.750

Insert for the installation set "Heavy-Duty": **975.50.XXX** instead of **960.50.XXX** on the right column "attached outwards"



Standard

Additional noise dampening with pads

QuickLock crossbar - reduce assembly time up to 25%

Part No.
Standard
e-chains®/e-tubes



Part No.
Low noise (with pads)
e-chains®/e-tubes



Part No.
QuickLock crossbar for inner radius



Part No.
QuickLock crossbar for outer radius

Part No.
QuickLock crossbar for both radii

QuickLock crossbars: inner widths from *Bi* 150 mm!



15050.30.R.0

Crossbar every link

S15050.30.R.0

Crossbar every link

15050.30QZ.R.0

Crossbar every link

15050.30QE.R.0

Crossbar every link

15050.30Q.R.0

Crossbar every link

15150.30.R.0

Crossbar every 2nd link

S15150.30.R.0

Crossbar every 2nd link

15150.30QZ.R.0

Crossbar every 2nd link

15150.30QE.R.0

Crossbar every 2nd link

15150.30Q.R.0

Crossbar every 2nd link

19850.30.R.0

e-tube, closed

S19850.30.R.0

e-tube, closed



Delivery in 24h or today!*

Delivery time: 3-5 work days

Delivery time: 3-5 work days

Delivery time: 3-5 work days

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Combination possibilities | Examples

	Low-noise option	QuickLock crossbar	NC-Version	RBR-Version	XXL-Material	HT-Material*	ESD-Material
Low-noise option		S15050.30Q.R.0	S15050.30.R.0.NC	-	S15050.30.R.0.XXL	S15050.30.R.0.HT	S15050.30.R.0.ESD
QuickLock crossbar	S15050.30Q.R.0		15050.30Q.R.0.NC	15050.30Q.R1/R2.0	15050.30Q.R.0.XXL	-	15050.30Q.R.0.ESD
NC-Version	S15050.30.R.0.NC	15050.30Q.R.0.NC		-	-	19850.30.R.0.HT.NC	15050.30.R.0.ESD.NC
RBR-Version	-	15050.30Q.R1/R2.0	-		-	19850.30.R1/R2.0.HT	15050.30.R1/R2.0.ESD
XXL-Material	S15050.30.R.0.XXL	15050.30Q.R.0.XXL	-	-		-	-
HT-Material*	S15050.30.R.0.HT	-	19850.30.R.0.HT.NC	19850.30.R1/R2.0.HT	-		-
ESD-	S15050.30.R.0.ESD	15050.30Q.R.0.ESD	15050.30.R.0.ESD.NC	15050.30.R1/R2.0.ESD	-	-	

*for gliding applications please consult igus®

E4/light | 15050·15150·19850 | Options and order key

NC-Version -
(no camber)
without pretension

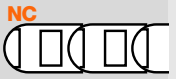
Reverse bending
radius for circular
movements

Unsupported
lengths +25%
possible


No burning-in of
hot chips up to
850°C (1562° F)

ATEX/ESD classi-
fied e-chains® -
II 2 GD


Part No.
NC-Material
e-chains®/e-tubes




Part No.
RBR
e-chains®/e-tubes




Part No.
XXL-Material**
e-chains®/e-tubes



Part No.
HT-Material
only for e-tubes



Part No.
ESD-Material
e-chains®/e-tubes



15050.30.R.0.NC
Crossbar every link

15050.30.R1/R2.0
Crossbar every link

15050.30.R.0.XXL
Crossbar every link

19850.30.R.0.HT
Complete e-tube*

15050.30.R.0.ESD
Crossbar every link

15150.30.R.0.NC
Crossbar every 2nd link

15150.30.R1/R2.0
Crossbar every 2nd link

15150.30.R.0.XXL
Crossbar every 2nd link

19850.30.HT.R.0
Lid and bottom

15150.30.R.0.ESD
Crossbar every 2nd link

19850.30.R.0.NC
e-tube, closed

19850.30.R1/R2.0
e-tube, closed

19850.30.R.0.XXL
e-tube, closed

19850.30.HTZ.R.0
Bottom only

19850.30.R.0.ESD
e-tube, closed

19850.30.HTE.R.0
Lid only

Delivery time:
3-5 work days

Delivery time:
10 work days

Delivery time:
1-2 weeks

Delivery time:
10 work days

Delivery time:
5 work days

(2-5 work days with
express surcharge)

**Sidebands made from
XXL-Material

*for gliding applications
please consult igus®

Order example | Order key and color options

 **Order example for complete e-chain® (3,0 m, with crossbars every link), color black, mounting brackets with C-profiles and interior separation:**

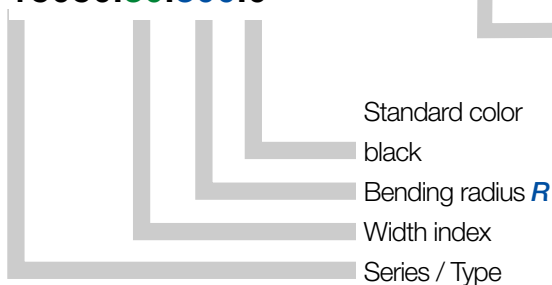
e-chain® (3,0 m) Please indicate e-chain® length or number of links: 3,0 m or 33 links **15050.30.300.0**

+ Mounting brackets 1 set (with integrated C-profiles) **150500.30.12.C**

+ Interior separation with 2 separators assembled every 2nd link **2 x 80.1.1**

Order text: 3,0 m 15050.30.300.0 + 150500.30.12.C + 2 x Part No. 80.1.1

 **Order key**
15050.30.300.0



Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

Black e-chains® from stock! *Colored e-chains® can delivered in 15 work days (5 work days at an express surcharge).

 **Available from stock. Delivery in 24h or today!***

*Delivery time means time until shipping of goods